

ColonyCount.org

Free smartphone lab-tool for biological sciences

Citizen science project by BiologiGaragen.org – DIY-bio Copenhagen

Colony Count is a mobile app that quickly and easily can count bacterial colonies, and assist you in your research.

Features:

- Colony count by manual tapping
- Automated counting by image analysis
- Areal growth of fungal colonies relative to plate size
- Distance and line measures relative to plate size
- Store and backup your photos and counts

Be part of the development:

Colony Count is currently being developed for Android devices and we are looking for any feedback that might improve the final release. In particular we are looking for:

- Good reference images of different colony types and plates taken with mobile devices, and a short description of what you will count or measure on the photo/plate. This will be used to broaden the usable range of the algorithms.
- Feedback on user experience and functionality.
- Feedback on future features and ideas.

Technical description:

It uses an adaptive algorithm that uses manually placed tags on representative colonies to dynamically calculate total colony count. Each automatically counted colony is tagged in a color depending on a reliability factor derived from the specific colony morphology. This makes it very easy to spot areas that are difficult to analyze. Colonies with very low reliability are excluded from the total count.

If Colony Count fails to count certain colonies properly (e.g. Merged colonies) the user can place manual tags and algorithm will instead use these colonies as sample data for new calculation.

Send questions, pictures and feedback to:
feedback@colonycount.org

sincerely - BiologiGaragen.org

p.s. Download the app from googleplay search for "ColonyCount"
The APP is currently in Beta, bugs and errors can occur.



WWW.DIYBIO.ORG